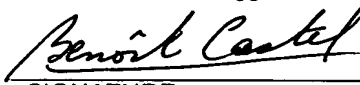


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| TRANSMITTAL LETTER TO THE UNITED STATES<br>DESIGNATED/ELECTED OFFICE (DO/EO/US)<br>CONCERNING A FILING UNDER 35 U.S.C. 371   |  | Attorney Docket No.<br><b>3502-1068</b><br>U.S. Application No.<br><b>10/510746</b> |
| INTERNATIONAL APPLN. NO.<br><b>PCT/FI03/00279</b>  | INTERNATIONAL FILING DATE<br><b>April 11, 2003</b> | PRIORITY DATE CLAIMED<br><b>April 11, 2002</b>                                      |
| TITLE OF INVENTION: <b>OPTICAL WAVEGUIDE</b>   |  |   |
| APPLICANT(S) FOR DO/EO/US: <b>Timo AALTO</b>   |  |   |
| Applicant herewith submits to the United States Designated Elected Office (DO/EO/US) the following items and other information:  |  |   |
| <ol style="list-style-type: none"> <li>1. <input checked="" type="checkbox"/> This is a <b>FIRST</b> submission of items concerning a filing under 35 U.S.C. 371.</li> <li>2. <input type="checkbox"/> This is a <b>SECOND</b> or <b>SUBSEQUENT</b> submission of items concerning a filing under 35 U.S.C. 371.</li> <li>3. <input checked="" type="checkbox"/> This is an express request to begin national examination procedures (35 U.S.C. 371(f)).<br/>The submission must include items (5), (6), (9) and (21) indicated below.</li> <li>4. <input checked="" type="checkbox"/> The US has been elected (Article 31).</li> <li>5. <input checked="" type="checkbox"/> A copy of the International Application as filed (35 U.S.C. 371 (c)(2)) <ol style="list-style-type: none"> <li>a. <input checked="" type="checkbox"/> is attached hereto (required only if not communicated by the International Bureau).</li> <li>b. <input checked="" type="checkbox"/> has been communicated by the International Bureau. See attached PCT/IB/308.</li> <li>c. <input type="checkbox"/> is not required, as the application was filed in the United States Receiving Office (RO/US).</li> </ol> </li> <li>6. <input type="checkbox"/> An English language translation of the International Application as filed (35 U.S.C. 371 (c)(2)) <ol style="list-style-type: none"> <li>a. <input type="checkbox"/> is attached hereto.</li> <li>b. <input type="checkbox"/> has been previously submitted under 35 U.S.C. 154(d)(4).</li> </ol> </li> <li>7. <input type="checkbox"/> Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371 (c)(3)) <ol style="list-style-type: none"> <li>a. <input type="checkbox"/> are attached hereto (required only if not communicated by the International Bureau).</li> <li>b. <input type="checkbox"/> have been communicated by the International Bureau.</li> <li>c. <input type="checkbox"/> have not been made, however, the time limit for making such amendments has NOT expired.</li> <li>d. <input type="checkbox"/> have not been made and will not be made.</li> </ol> </li> <li>8. <input type="checkbox"/> An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371 (c)(3)).</li> <li>9. <input type="checkbox"/> An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)) or a Declaration of Inventorship for purposes of U.S.A. designation pursuant to rule 4.17(iv).</li> <li>10. <input type="checkbox"/> An English language translation of the annexes of the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)).</li> </ol> <p><b>Items 11 to 20 below concern document(s) or information included:</b></p> <ol style="list-style-type: none"> <li>11. <input checked="" type="checkbox"/> Information Disclosure Statement (IDS) w/PTO-1449 - <input checked="" type="checkbox"/> Copy of IDS citations.</li> <li>12. <input type="checkbox"/> Assignment Papers (cover sheet &amp; document(s)).</li> <li>13. <input checked="" type="checkbox"/> A preliminary amendment.</li> <li>14. <input checked="" type="checkbox"/> An Application Data Sheet under 37 C.F.R. 1.76.</li> <li>15. <input type="checkbox"/> A substitute specification.</li> <li>16. <input type="checkbox"/> A change of power of attorney and/or change of address letter.</li> <li>17. <input type="checkbox"/> A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 37 CFR 1.821 - 1.825.</li> <li>18. <input type="checkbox"/> A second copy of the published international application under 35 U.S.C. 154(d)(4).</li> <li>19. <input type="checkbox"/> A second copy of the English language translation of the international application (35 U.S.C. 154(d)(4)).</li> <li>20. <input checked="" type="checkbox"/> Other items or information: <b><u>International Search Report (PCT/ISA/210), Abstract of the Disclosure</u></b></li> </ol> |  |   |

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| U.S. APPLICATION NO.<br><b>10/510746</b>  |              | INTERNATIONAL APPLN. NO.<br>PCT/FI03/00279 |  | ATTORNEY DOCKET NO.<br>3502-1068     |    |
| 21. <input checked="" type="checkbox"/> The following fees are submitted:<br><br><b>BASIC NATIONAL FEE (37 CFR 1.492 (a) (1)-(5)):</b><br><br>Neither international preliminary examination fee nor international search fee paid to USPTO and international Search Report not prepared by the EPO or JPO ..... <b>\$1110.00</b><br><br>International preliminary examination fee not paid to USPTO but International Search Report prepared by the EPO or JPO ..... <b>\$950.00</b><br><br>International preliminary examination fee not paid to USPTO but International search fee paid to USPTO ..... <b>\$790.00</b><br><br>International preliminary examination fee paid to USPTO but all claims did not satisfy provision of PCT Article 33 (1)-(4) ..... <b>\$750.00</b><br><br>International preliminary examination fee paid to USPTO and all claims satisfied provision of PCT Article 33 (1)-(4) ..... <b>\$100.00</b><br><br><b>ENTER APPROPRIATE BASIC FEE AMOUNT</b> |              |  |  | <b>CALCULATIONS<br/>PTO USE ONLY</b> |    |
|   |              |  |  |                                      |    |
| Surcharge of <b>\$130.00</b> for furnishing the oath or declaration later than <input type="checkbox"/> 20- <input checked="" type="checkbox"/> 30 months from the earliest claimed priority date (37 CFR 1.492(e))   |              |  |  | <b>\$ 130.00</b>                     |    |
| CLAIMS  | NUMBER FILED | NUMBER EXTRA                               | RATE   | \$                                   |    |
| Total Claims  | 8 - 20 =     | 0  | x <b>\$18.00</b>   | \$                                   |    |
| Independent Claims  | 2 - 3 =      | 0  | x <b>\$88.00</b>   | \$                                   |    |
| MULTIPLE DEPENDENT CLAIM(S) (if applicable)   |              |  | + <b>\$300.00</b>  | \$                                   |    |
| <b>TOTAL OF ABOVE CALCULATION =</b>   |              |  |  | <b>\$ 1,240.00</b>                   |    |
| <input type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27. The fees indicated above are reduced by 1/2.  |              |  |  | \$                                   |    |
| <b>SUBTOTAL =</b>   |              |  |  | <b>\$ 1,240.00</b>                   |    |
| Processing fee of <b>\$130.00</b> for furnishing the English translation later than <input type="checkbox"/> 20 <input type="checkbox"/> 30 months from the earliest claimed priority date (37 CFR 1.492(f)).   |              |  |  | \$                                   |    |
| <b>TOTAL NATIONAL FEE =</b>   |              |  |  | <b>\$ 1,240.00</b>                   |    |
| Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31) <b>\$40.00</b> per property +  |              |  |  | \$                                   |    |
| <b>TOTAL FEES ENCLOSED =</b>  |              |  |  | <b>\$ 1,240.00</b>                   |    |
|   |              |  |  | Amount to be refunded:               | \$ |
|   |              |  |  | Charged:                             | \$ |
| <input checked="" type="checkbox"/> A check in the amount of <b>\$1,240.00</b> to cover the above fees is attached.<br><br><input type="checkbox"/> The Commissioner is hereby authorized to charge indicated fees and credit any overpayment to Deposit Account No. 25-0120 in the name of Young & Thompson. A duplicate copy of this sheet is enclosed.<br><br><input checked="" type="checkbox"/> The Commissioner is hereby authorized in this, concurrent, and future replies, to charge payment or credit any overpayment to Deposit Account No. 25-0120 for any additional fee required under 37 C.F.R. §§ 1.16 or 1.17.   |              |  |  |                                      |    |
| SEND ALL CORRESPONDENCE TO:<br>YOUNG & THOMPSON<br>745 South 23 <sup>rd</sup> Street<br>Arlington, VA 22202<br>Telephone (703) 521-2297<br><br>Y&T Customer No. <b>00466</b><br>BC/ia   |              |  | <br>SIGNATURE<br><br>Benoit Castel, Reg. No. 35,041<br>NAME, REGISTRATION NUMBER<br><br>October 12, 2004<br>DATE |                                      |    |